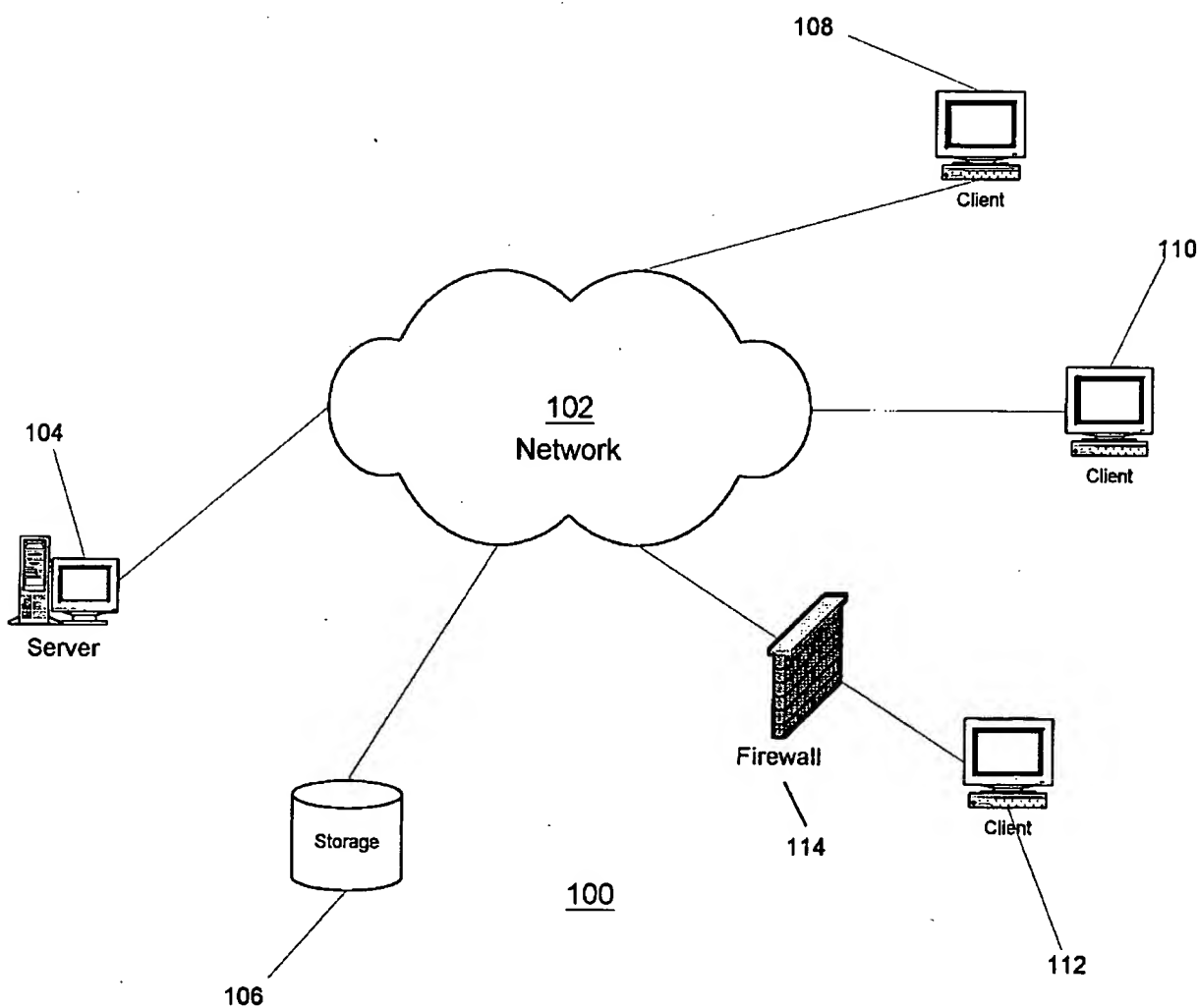


Figure 1

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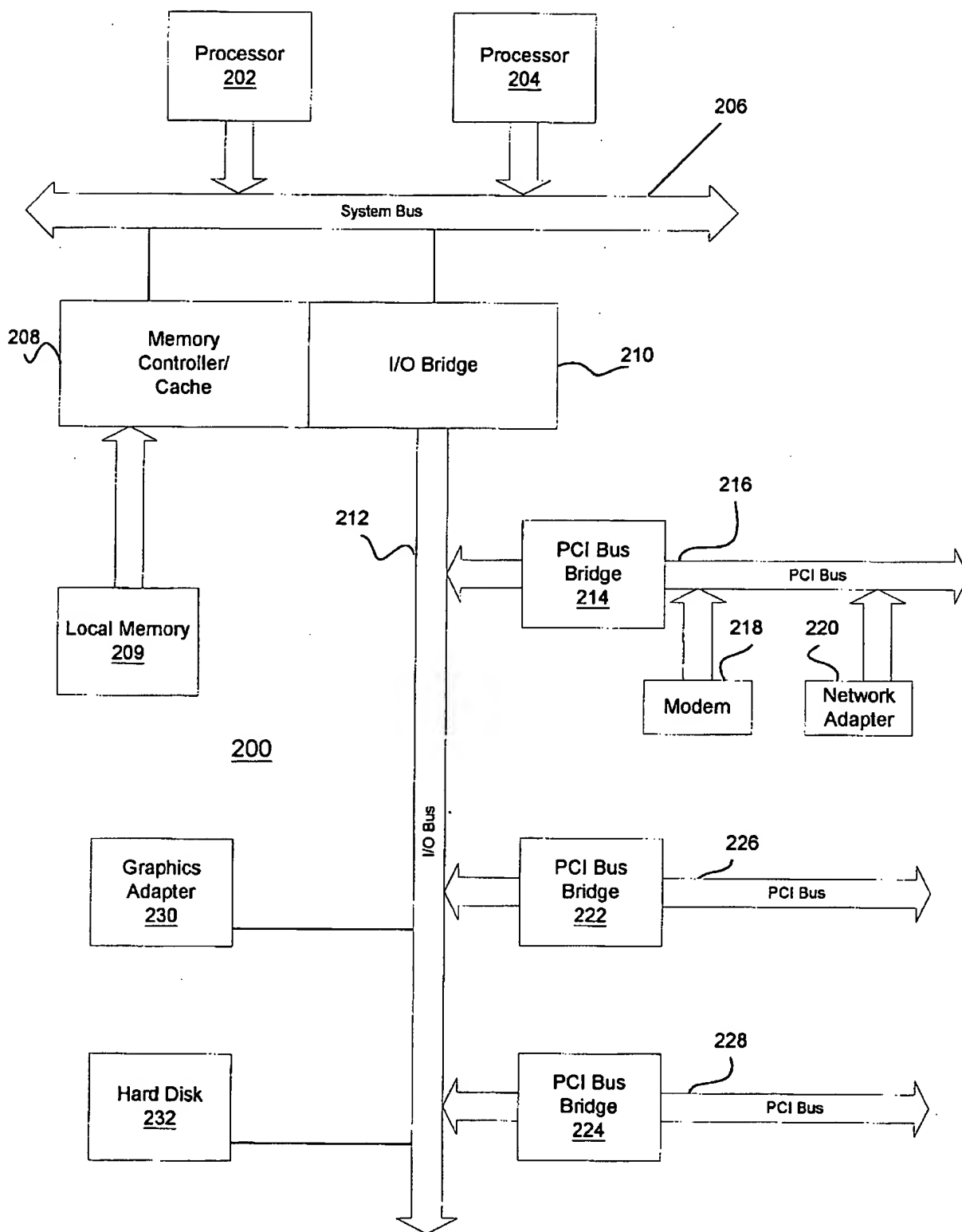


Figure 2

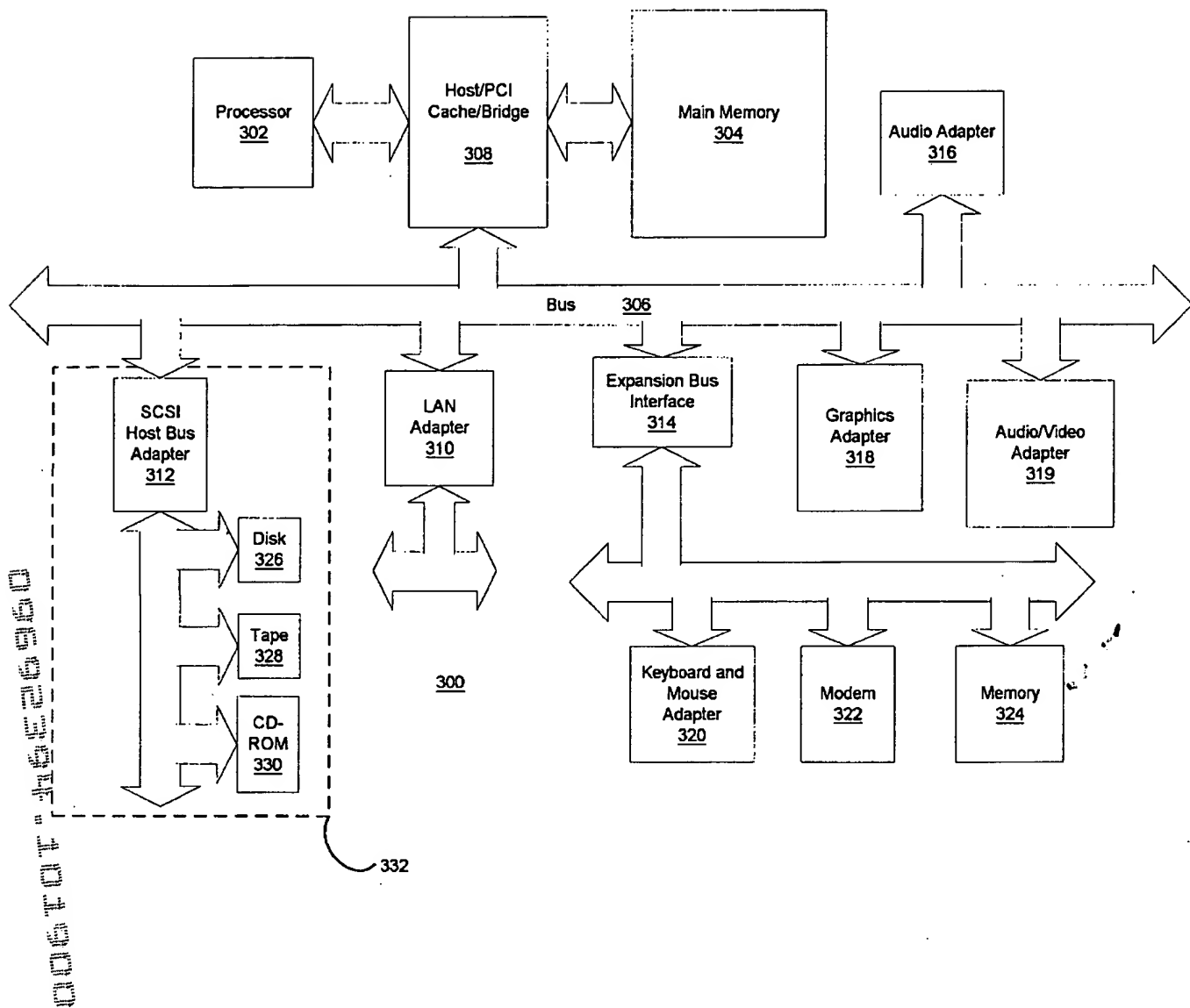


Figure 3

Figure 4

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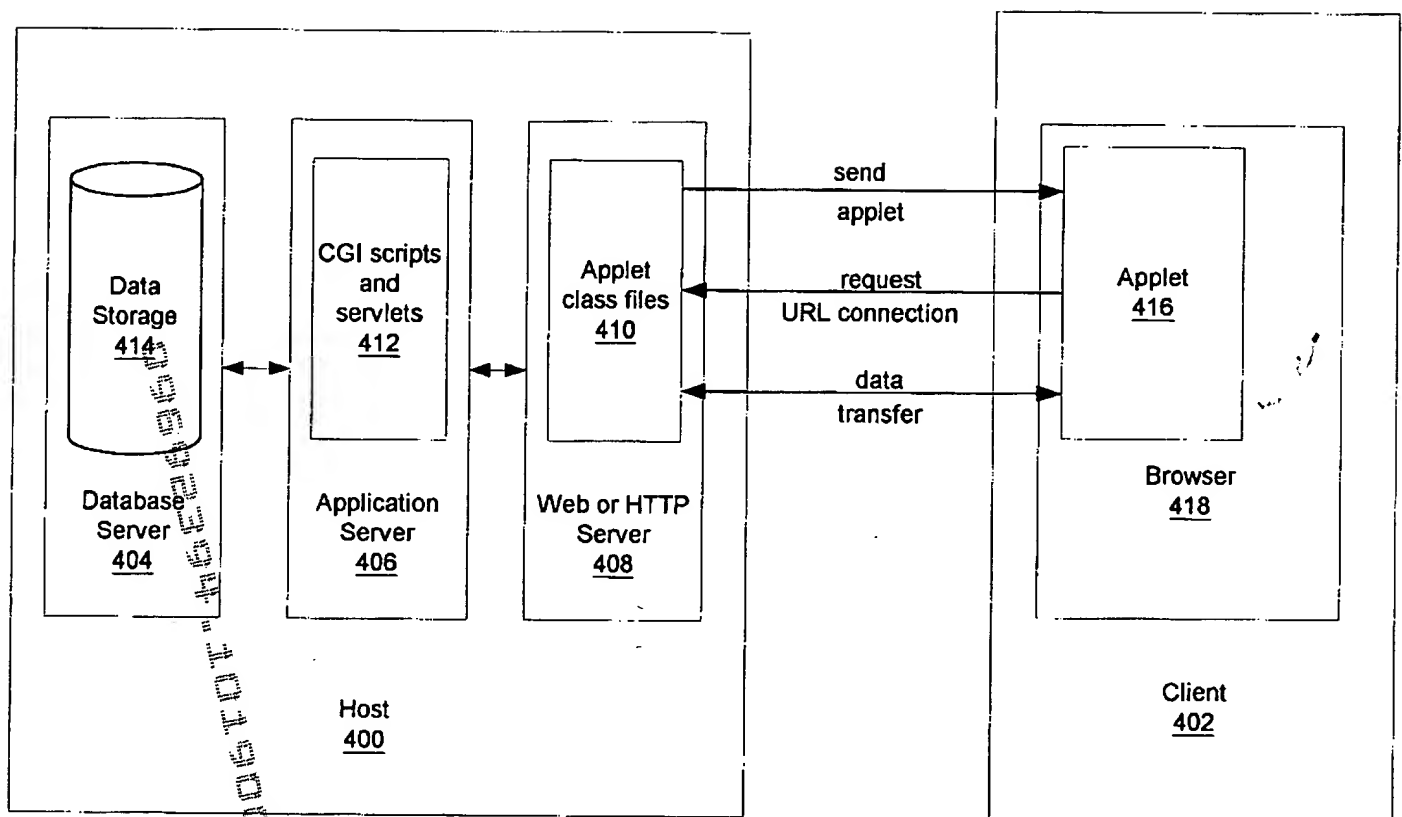
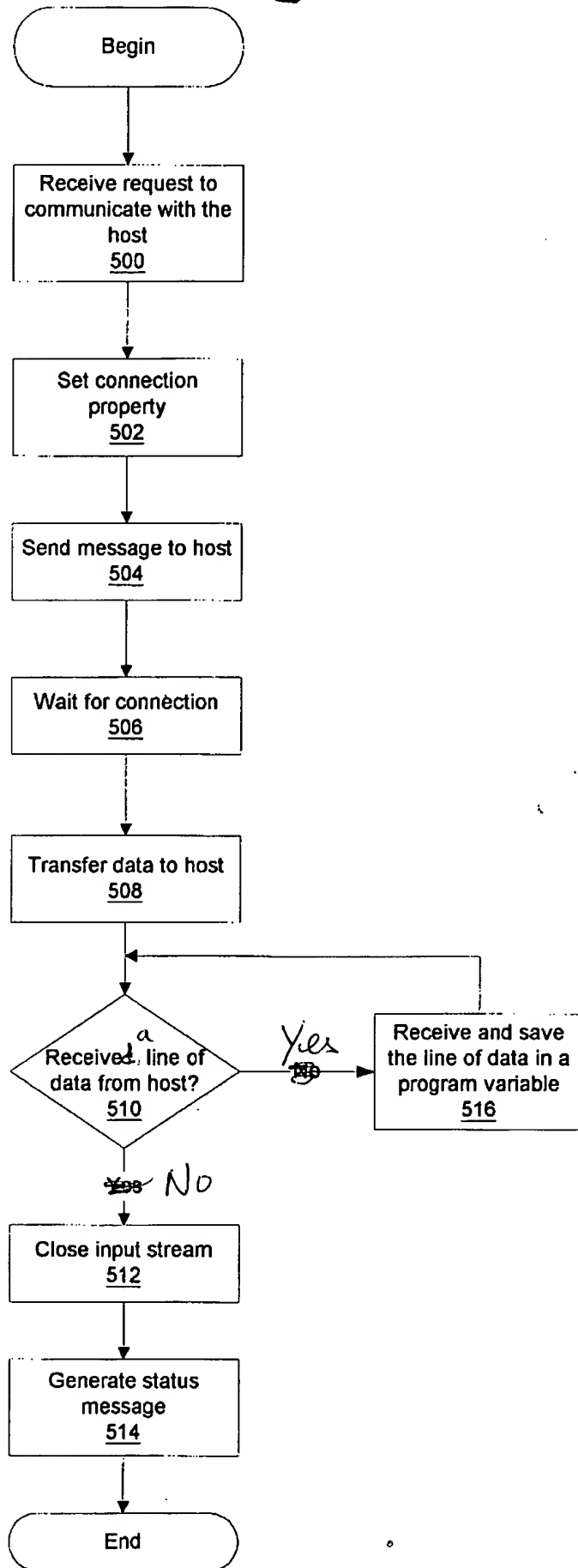


Figure 5

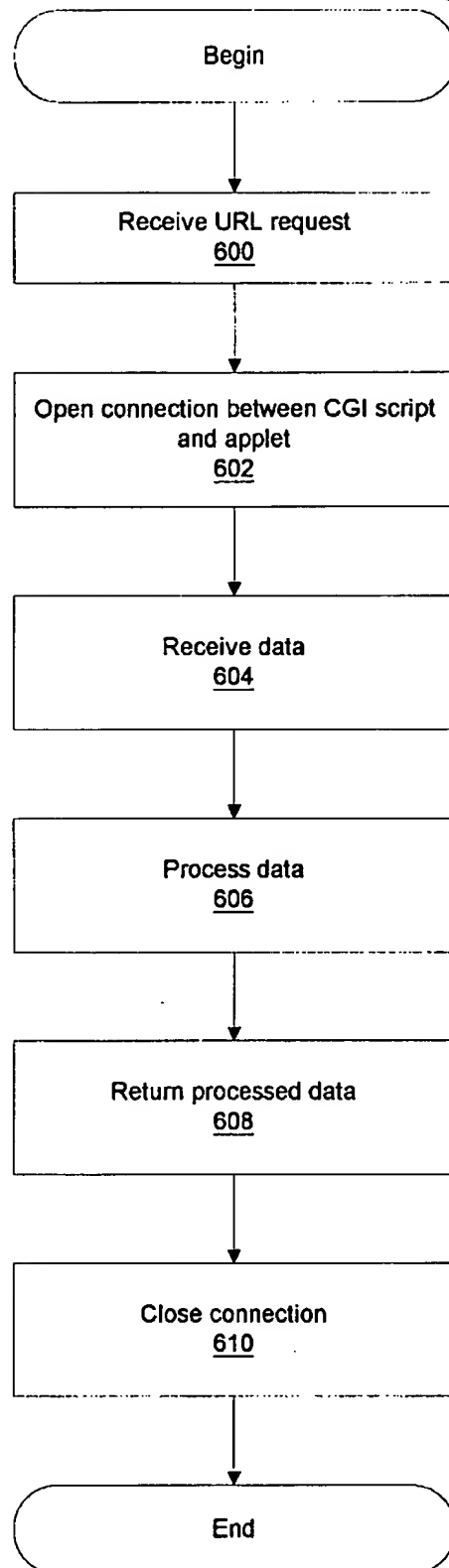
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Figure 6

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700

702

704

0262 1000

```
// Create the fully qualified URL string...
try
{
    redirectURL = new URL( getDocumentBase().getProtocol(),
                           host,
                           port,
                           aFileAtURL );
}
catch (MalformedURLException e)
{
    showHostCommError(1000; "Host URL could not be located for network communication.");
    showError(e);
    return;
}
consoleDebug("Home URL = " + redirectURL);
```

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Figure 7B

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```
// Now, create the URLconnection to the host...
try
{
    urlc = redirectURL.openConnection();
```

```
    // next, change the setup parameters...
    urlc.setDoInput(true);
    urlc.setDoOutput(true);
    urlc.setUseCaches(false);
    urlc.setAllowUserInteraction(false);
```

```
    // and also the request property...
    urlc.setRequestProperty( "Content-Type", "application/x-www-form-urlencoded" );
```

```
    }
    catch (IOException e)
    {
        showHostCommError(1001, "A URLConnection for host communication could not be created.");
        showError(e);
        return;
    }
    consoleDebug("Home URLConnection was created");
```

708

```
if (getMsgHandle() != null)
{
    getMsgHandle().changeText("Sending data to host... Please Wait.");
    getMsgHandle().showIt();
}
```

```
// Send the data from applet to the host server
```

```
try
{
    dos = new DataOutputStream(urlc.getOutputStream());
    dos.writeBytes(dataString);
    dos.close();
    consoleDebug("line written: " + dataString);
}
catch (IOException e)
{
    showHostCommError(1005, "User Data write failure occurred during host communication.");
    showError(e);
    return;
}
consoleDebug("All data was sent to host.");
```

710

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```

// Create a Reader
if ( urlc != null )
{
    try
    {
        bri = new BufferedReader(new InputStreamReader(urlc.getInputStream()));
    }
    catch (UnknownServiceException e)
    {
        showHostCommError(1003, "A reading stream for host communication could not be created due to UnknownServiceException.");
        showError(e);
        return;
    }
    catch (IOException e)
    {
        showHostCommError(1003, "A reading stream for host communication could not be created due to IOException.");
        showError(e);
        return;
    }
}
consoleDebug("reader created");

```

Figure 7C

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```

if (getMsgHandle() != null)
{
    getMsgHandle().changeText("Receiving data from host... Please Wait.");
    getMsgHandle().showIt();
}

// Receive data from host server (using Reader).
String msgOutLineString;

if ( bri != null )
{
    try
    {
        while ( (msgOutLineString = bri.readLine()) != null )
        {
            consoleDebug("msgOutLineString : " + msgOutLineString);

            msgOutString += msgOutLineString + "\n";
        }
    }
    catch (IOException e)
    {
        showHostCommError(1007, "Failure receiving data from host.");
        showError(e);
        return;
    }
}

consoleDebug("msgOutString : " + msgOutString);

consoleDebug("Through reading data from server");

if (getMsgHandle() != null)
{
    getMsgHandle().changeText("Closing host connection... Please Wait.");
    getMsgHandle().showIt();
}

```

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Figure 7D

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```
// Cleanup
if ( bri != null )
{
    try
    {
        bri.close();
    }
    catch (IOException e)
    {
        showHostCommError(1008, "Input stream close error during host communication." );
        showError(e);
        return;
    }
}

// Check for and show the user any host communication ERRORS...
.
.
.

// Bring down any communication STATUS msgbox that we were
// showing the user...
.
.
.

} /* end of stdioTalkToHome */

/**
 * This function shows debug info in Java Console of the
 * browser only if TRACE flag has been turned on.
 *
 * Inputs to this function are:
 * 1. show - This is the string to display in the Java Console
 *
 */
public static void consoleDebug(String show)
{
    if (TRACE)
    {
        System.out.println("=> " + show);
    }
} /* end of consoleDebug */
```

714

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